# DOBLIBOS OLDLOI.

| 54<br>TCG             | 108<br>GGA          | 162<br>AGG     | 216<br>CCG<br>P       | 70<br>AG             | 24<br>3C         | စ္က ပ္ပ           | Z 2             |
|-----------------------|---------------------|----------------|-----------------------|----------------------|------------------|-------------------|-----------------|
|                       |                     |                | 27<br>C C C           | 270<br>CAG<br>Q      | 324<br>ACC<br>T  | 378<br>CCC<br>P   | 432<br>AAC<br>N |
| 990                   | AGT                 | CAG            | AAC                   | ATC                  | GAG<br>E         | CCA<br>P          | AAG<br>K        |
| TTC                   | TGA                 | 999            | GGA AAC<br>G N        | GTG<br>V             | $	ext{TTT}$      | CCT<br>P          | CCT             |
| 45<br>CCC             | 99<br>GAG           | 153<br>GGA     | 207<br>GGC<br>G       | 261<br>GCT<br>A      | 315<br>CCT<br>P  | 369<br>TTG<br>L   | 423<br>GAA<br>E |
| TGG                   | 299                 | CGT            | GAC<br>D              | CCA                  | AAC<br>N         | CCA<br>P          | ACA<br>T        |
| ${ m TTG}$            | TGA                 | 999            | AGA GAC<br>R D        | GAC<br>D             | TAC<br>Y         | GCC<br>A          | CCC             |
| 36<br>TCC             | 90<br>AAC           | 144<br>CAG     | 198<br>AGC<br>S       | 252<br>CAG<br>Q      | 306<br>GTC<br>V  | 360<br>CCT<br>P   | 414<br>AGC<br>S |
| GGA                   | 909                 | 990            | CAG                   | $	ext{TTT}$          | GAC<br>D         | GCC               | CTC<br>L        |
| 990                   | 999                 | CTG            | GCT<br>A              | CCC                  | CTT              | CCA<br>P          | AAG<br>K        |
| 27<br>CTG             | 81<br>AGC           | 135<br>CTG CTG | 189<br>ATG GCT<br>M A | 243<br>AAC<br>N      | 297<br>ACG<br>T  | 351<br>CCT<br>P   | 405<br>AGA<br>R |
| CTG                   | AGA                 | CCA            | AAC                   | GAC<br>D             | GCC              | GAG<br>E          | TCG<br>S        |
| 990                   | CAG                 | ົວວວ           | GCA AAC               | $_{\rm L}^{\rm crr}$ | TAT<br>Y         | TAT<br>Y          | CCC             |
| 18<br>CCA             | 72<br>GCA           | 126<br>CTA     | 180<br>GTT            | 234<br>GAG<br>E      | .288<br>CAG<br>Q | 342<br>GCC<br>A   | 396<br>CAG<br>Q |
| AAC                   | CGT                 | 500            | GCA                   | AGC<br>S             | CGG<br>R         | CCA<br>P          | ${ m TTG}$      |
| <br>                  | ATC                 | CTA            | 225                   | CCC                  | AGC              | CCA<br>P          | ICC             |
| 9<br>AGG              | 63<br>ATG GAA CCA A | 117<br>GGG     | 171<br>GAG            | 225<br>GAG<br>E      | 279<br>CCC<br>P  | 333<br>CCA (<br>P | 387<br>CCC 7    |
| 252                   | GAA                 | CTC TGA        | 909                   | GCC<br>A             | CGA<br>R         | GAG<br>E          | GCT<br>A        |
| 9<br>5' NGA CGC AGG C | ATG                 | CTC            | 171<br>GCC GCG GAG    | TTC GCC (F A         | CAC CGA<br>H R   | CGG<br>R          | TCA GCT<br>S A  |
| 5,                    |                     |                |                       |                      |                  |                   |                 |

#### FIGURE 1A

### TOLUBE ECELUSE

| 486<br>CTG<br>L | 540<br>CGA<br>R | 594<br>CCC<br>P | 648<br>ATG<br>M | 702<br>ATG<br>M | 756<br>TGT<br>C | 810<br>CTT<br>L |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| $	ext{CTG}$     | GAG<br>E        |                 |                 | TGG<br>W        |                 |                 |
| GAG<br>E        | AGG<br>R        |                 |                 | CTC             |                 |                 |
| 477<br>GCT<br>A |                 | 585<br>AAC<br>N |                 |                 |                 |                 |
| ACA<br>T        |                 | CAG             |                 |                 |                 |                 |
|                 | ${ m TTG}$      | CGA<br>R        | ${ m TTC}$      | ATG<br>M        | TGC             | ATC             |
| 468<br>GCA<br>A | 522<br>GAG<br>E | 576<br>ACT<br>T | 630<br>TTT<br>F | 684<br>ACC<br>T | 738<br>GCC<br>A | 792<br>TCT<br>S |
| GCA<br>A        |                 | GCT             |                 |                 |                 |                 |
|                 |                 | ACA<br>T        |                 |                 |                 |                 |
| 459<br>TCA<br>S | 513<br>AAG<br>K | 567<br>GGC<br>G | 621<br>CAG<br>Q | 675<br>ACT<br>T | 729<br>AAC<br>N | 783<br>TTT<br>E |
| GCC             | CGG<br>R        | 666             | GTT<br>V        | AAG<br>K        | $	ext{CTG}$     | 9<br>299        |
| CAG<br>Q        | AAC<br>N        | CTG             | CCA<br>P        | CAG<br>Q        | CTC             | GCA             |
| 450<br>ACT<br>T | 504<br>CTC<br>L | 558<br>GCC<br>A | 612<br>TGT<br>C | 666<br>TTT<br>F | 720<br>CTT<br>L | 774<br>GGC<br>G |
| AGC             | GAG<br>E        | GCT             |                 |                 | -               | AAT<br>N        |
| TAC             | GAG<br>E        | CAT<br>H        | S               | CAA             | CTG             | AAC<br>N        |
| 441<br>TCA<br>S |                 | 549<br>CAG<br>Q |                 |                 |                 |                 |
| 9<br>299        |                 | CTG             |                 |                 |                 |                 |
| TAT GGC<br>Y G  | AAG             | GAG             | CCT             | GAG Z           | TGC 7           | GTG (           |
|                 | •               | •               |                 |                 |                 | - F             |

#### FIGURE 1B

| 364<br>2GG                  | 918<br>2AT      | )72<br>'GG<br>I | )26<br>?TG      | 180<br>AA                 | 34<br>'AA   | 88<br>AT               |
|-----------------------------|-----------------|-----------------|-----------------|---------------------------|---|------------------------|
| ω C H                       | 0,0 1           | 0, 1, 5         | 10,             | 10<br>1. A                | 11.0  | 11<br>A                |
| TT(<br>F                    | CAC             | 9               | ATG             | CTG                       | CAG<br>Q  | GCC                    |
| GCT<br>A                    | GTC<br>V        | AGT<br>S        | CTC             | ATG<br>M                  | GCC   | GCT<br>A               |
| 855<br>AAG<br>K             | 909<br>TTC<br>F | 963<br>TTC<br>F | 017<br>GTG<br>V | 071<br>GTC<br>V           | 125<br>AAG<br>K   | 179<br>GCA<br>A        |
| TAT<br>Y                    | ${ m TTC}$      | GGA<br>G        | 1<br>TCC<br>S   | 1<br>ATT<br>I             | 1<br>CAG<br>Q   | ACC T                  |
| ATG<br>M                    | ATT<br>I        | TGG<br>W        | GTA             | GGA<br>G                  | TTT<br>F  | CGA<br>R               |
| 846<br>CCC<br>P             | 900<br>TTC<br>F | 954<br>GGT<br>G | 008<br>GCA<br>A | 062<br>CTA<br>L           | 116<br>AGC<br>S   | 170<br>GTG<br>V        |
| CGC<br>R                    | ${ m TTC}$      | CCA<br>P        | ACA<br>T        | 1<br>GTG<br>V             | GCC<br>A  | 1<br>GCG<br>A          |
| TAC<br>Y                    | TTC             | ATC<br>I        | AAC<br>N        | GCT<br>A                  | GGT   | CCT                    |
| 837<br>C TGG TAC C<br>W Y R | 891<br>GTT<br>V | 945<br>GGT<br>G | 9<br>986<br>989 | .053<br>ATT<br>I          | .107<br>ACA<br>T  | .161<br>AAC<br>N       |
| TGC                         | ${ m TTC}$      | ATT<br>I        | AAG<br>K        | 1<br>GGC<br>G             | 1<br>CGC<br>R   | TCC S                  |
| GTC                         | TTC             | GCC             | CCG<br>P        | ACT                       | CGĊ<br>R  | $\mathrm{TTC}$         |
| 828<br>TTT<br>F             | 882<br>AAT<br>N | 936<br>CAG<br>Q | 990<br>GTG<br>V | 1044<br>TTC<br>F          | 1098<br>TAC<br>Y  | .152<br>GTC<br>V       |
| TCC                         | $	ext{TTC}$     | CTC             | GTG             | $\operatorname*{CTC}_{L}$ | 089 11098 1107 1116 1125 1134<br>CAC TCC TTA TAC CGC CGC ACA GGT GCC AGC TTT CAG AAG GCC CAG CAA<br>H S L Y R R T G A S F Q K A Q Q | 1<br>GGT<br>G          |
| <u></u> မ                   | —₹—             |                 |                 |                           | ——မ   | —— <u>H</u>            |
| HO                          | E S             | <u>ن</u> >      | рH              | С                         | S H   | დ ≰                    |
| 819<br>CCC<br>P             |                 |                 |                 | 1035<br>GCC<br>A          | 1089<br>CAC<br>H  | 1143<br>GCT<br>A       |
| TTC ACT<br>F T              | GAC<br>D        | CTC             | TCT             | 1035<br>GTC GCC<br>V A    | 1089<br>ATC CAC<br>I H  | 1143<br>TTT GCT<br>F A |
| TTC                         | AGT<br>S        | GTG<br>V        | ATC<br>I        | ${ m CTG}$                | CGG<br>R  | GAA<br>E               |
|                             |                 |                 |                 |                           |   |                        |

### 

| 1242<br>CTG ACT GGG                | 1296<br>CTA AGG TCT | 1350<br>CTC CCA ATC | 1404<br>TGT GAC CTA     | 1458<br>CCC AGC TTC | 1512<br>AAA GTG GAA |                     |
|------------------------------------|---------------------|---------------------|-------------------------|---------------------|---------------------|---------------------|
| _                                  | _                   |                     |                         |                     | )3<br>IG AP         |                     |
| 1233<br>CCG TGA CCC<br>P           | 1287<br>CCG TCC     | 1341<br>GTA GTG     | 1395<br>GTT CAC         | 1449<br>CCC CAA     | 1503<br>AAA AAG     |                     |
| CCG<br>P                           | CIC                 | TCC                 | GGA                     | ACG                 | AAT                 |                     |
| 1224<br>CGG GCC<br>R A             | 1278<br>ACT TAG     | 1332<br>GGC TCC TCC | 1386<br>GTG TGG         | 1440<br>TCT CAC     | 494<br>TTA          |                     |
| CGG.                               | ACT                 |                     |                         | TCT                 | 1<br>TAT            |                     |
| ${ m TTC}$                         | CTG                 | GAT                 | 299                     | ACC                 | CGT                 |                     |
| 1215<br>GAA AAT GCC TTC<br>E N A F | 1269<br>AGG GAG     | 1323<br>CTA ACT GAT | 1377<br>CTG ACA GGC     | 1431<br>GCT GCC     | 1485<br>TGC TTC     |                     |
| AAT                                |                     |                     | CTG                     | GCT                 | TGC                 |                     |
|                                    | ${ m TTG}$          | TCA                 | AAC                     | ACT                 | TGT                 |                     |
| 1206<br>GCT GCT<br>A A             | 1260<br>TGC TAC     | 1314<br>GAG ACA TCA | 1368<br>CTG CTG AAC     | 1422<br>GGC CAC     | 1476<br>CAC GGC     |                     |
| GCT                                |                     | GAG                 | CTG                     |                     | CAC                 |                     |
|                                    | <br>                | GGA                 | TGA                     | TCA                 | TGC                 | m                   |
| 1197<br>C GCT<br>A                 | 1251<br>: TGG       | 1305<br>CTT         | 1359<br>CCA             | 1413<br>CCC CCA TCA | 1467<br>CTG CTG TG  | 1521<br>A CTG       |
| 1197<br>GCA GCC GCT<br>A A A       | 1251<br>ATG CCC TGG | 1305<br>CTG GGA CTT | 1359<br>CTA TGG CCA TGA | , ,<br>)<br>)       | CTG                 | 1521<br>CTG GAA CTG |
| GCA                                | ATG                 | CTG                 | CTA                     | GTC (               | CCT                 | CTG                 |
|                                    | -                   |                     | * -                     |                     |                     |                     |

#### FIGURE 1D

| 54<br>GCA           | 108<br>GAC<br>D | 162<br>GTG<br>V | 216<br>TCA<br>S | 270<br>CAG<br>Q | 324<br>GTG<br>V   | 378<br>AAA<br>K |
|---------------------|-----------------|-----------------|-----------------|-----------------|-------------------|-----------------|
|                     |                 |                 | S Ţ S           |                 |                   |                 |
| GAG                 | ${ m TTC}$      | TCT             | TTC             | TCA             | GCC               | AGG<br>R        |
| ອວວ                 | GCT             | CCC             | CCC             | TCC             | CAG<br>Q          | GAC<br>D        |
| 45<br>TGC           | 99<br>TCG<br>S  | 153<br>GAT<br>D | 207<br>AAC<br>N | 261<br>GGG<br>G | 315<br>CCC (<br>P | 369<br>CTG<br>L |
| 999                 | ATG<br>M        | CAG<br>Q        | TTC<br>F        | CCT             | ACC               | GAA<br>E        |
| TCT                 | ACC 1           | TÍC C           | GAA             | CTC<br>L        | CCG               | GAA<br>E        |
| 36                  | 90<br>ATC       | 144<br>CCC<br>P | 198<br>GCG<br>A | 252<br>CAA<br>Q | 306<br>CAC        | 360<br>CAG<br>Q |
| GCT                 | 500             | AAC<br>N        | CTG<br>L        | ACC             | ACC<br>T          | CAG             |
| ລລອ                 | 222             | GTA             | 255             | GTC             | CC.               | CGG<br>R        |
| 27<br>AGC           | 81<br>TGG       | 135<br>GAT<br>D | 189<br>GGC<br>G | 243<br>CCT<br>P | 297<br>GAA<br>E   | 351<br>CTC<br>L |
| CGA                 | ້ວອວ            | GTG             | CAG<br>Q        | GTT<br>V        | GTG<br>V          | CTG             |
| ACA                 | ၁၁၅             | CCA<br>P        | CCG             | ACA<br>T        | TCA               | 1990<br>1990    |
| 18<br>TCT           | 72<br>TTC       | 126<br>GAC<br>D | 180<br>GCC<br>A | 234<br>ACA<br>T | 288<br>CCA<br>P   | 342<br>GCA<br>A |
| 999                 | GAG             | GCG<br>A        | AAC<br>N        | GCG<br>A        | CAG<br>Q          | CAG<br>Q        |
| GGA                 | B               | TTC             | ACC             | GCA             | CTC               | GCC             |
| 9<br>AGT            | 63<br>TTC       | 117<br>CCC<br>P | 171<br>CTG<br>L | 225<br>AAT<br>N | 279<br>GTT<br>V   | 333<br>GCA<br>A |
| 9<br>5' NCC GGA AGT | GCA GCG         | ACC AAC OT      | CAG<br>Q        | GAG ACA<br>E T  | GCG<br>A          | TCT             |
| NCC                 | GCA             | ACC             | ACC<br>T        | GAG<br>E        | CCA               | GTG<br>V        |
| 5                   |                 |                 |                 |                 |                   | ·               |

#### FIGURE 2A

### nggulans nugun

| 432<br>TTG<br>L | 486<br>CCC<br>P | 540<br>TGC<br>C | 594<br>CTG<br>L | 648<br>GGC<br>G | 702<br>I'AC<br>Y | 756<br>ITC<br>F |
|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|
|                 |                 |                 | AAC             |                 |                  | GTG 7           |
| GCC             | GTG<br>V        | CGG<br>R        | CTG<br>L        | GAC<br>D        | TGT<br>C         |                 |
| 423<br>GTA<br>V |                 |                 | 585<br>TTT<br>F |                 |                  |                 |
| ACT<br>T        | TGC             | TAC<br>Y        | CTG<br>L        | GGA<br>G        | TTC              | AGC             |
| AAC<br>N        | TGG<br>W        | GAC             | A.C.T.<br>T     | AAG<br>K        | GCC              | TTC             |
|                 |                 |                 | 576<br>GTG<br>V |                 |                  |                 |
|                 |                 |                 | TCA             |                 |                  |                 |
| GAG<br>E        | $	ext{CTG}$     | ATC<br>I        | CAT<br>H        | AAC<br>N        | ACT              | GAC<br>D        |
| 405<br>CGG<br>R | 459<br>CCT<br>P | 513<br>GAG<br>E | 567<br>TTG<br>L | 621<br>GGC<br>G | 675<br>TTC<br>F  | 729<br>TCC<br>S |
| GAG<br>E        | CCC             |                 | ATG<br>M        | TCG             | ATC<br>I         | AGG<br>R        |
| AAG<br>K        | TGG<br>W        | TCC             | TGG<br>W        | TTC<br>F        | CTG<br>L         | TTT<br>F        |
| 396<br>CGC<br>R | 450<br>AAC<br>N | 504<br>TTC<br>F | 558<br>CTG<br>L | 612<br>TGG<br>W | 666<br>TTT<br>F  | 720<br>GCC<br>A |
| GAA<br>E        | AAC<br>N        | GAT             |                 | GCC             |                  |                 |
| CTG             | CAG             | CAG             | TAC             | CTG             | CTG              | TAT             |
| 387<br>GAG<br>E | 441<br>AGA<br>R | 495<br>TAT<br>Y | 549<br>CTC<br>L | 603<br>TGC<br>C | 657<br>ATC<br>I  | 711<br>ATC<br>I |
| GCC             | GTG<br>V        | TTC<br>F        | ATG<br>M        | GCC<br>A        | TCC              | CCC             |
| GCT<br>A        | CAT             | TGC             | AAG             | CTT             | CTC              | CGA<br>R        |

#### FIGURE 2B

| 810<br>ATC<br>I   | 864<br>CAT<br>H | 918<br>TGT<br>C | 972<br>ACA<br>T | 026<br>AGC<br>S                         | 080<br>AAT<br>N              | 1134<br>GCT           |
|-------------------|-----------------|-----------------|-----------------|---|------------------------------|-----------------------|
| 299               | AAT<br>N        | CTC             | CGA CGG Z       | 1026<br>TTC AGC AGC<br>F S S            | 1080<br>CAG GGG AAT<br>Q G N | 1134<br>TTC TGA GCT   |
| GTT               | GAT             | ACC             | CGA<br>R        | TTC                                     | CAG<br>Q                     | TTC                   |
| 801<br>TTG<br>L   | 855<br>CTG      | 909<br>TTC .    | 963<br>'AC      | 1017<br>GGC ATC 1<br>G I E              | 1071<br>GCC TTC (            | 1125<br>TCG CCT GCC 1 |
| CAG<br>Q          | ACA<br>T        | C TTC 1         | TCC CTC T       |   | GCC<br>A                     | CCT                   |
| ATC (             | TCT             | Ö.              | TCC             | CAG<br>Q                                | G.A.                         | ICG                   |
| 792<br>ATC .<br>I | 846<br>CTG<br>L | 900<br>GCT<br>A | 954<br>CAC<br>H | 999<br>GAG GAG TTT TCC CAG<br>E E F S Q | 1062<br>GCC CAA G<br>A Q G   | 1116<br>GCC TTT CTC 1 |
| TAC               | GCC             | GTG             | CGG GTG (R V I  | TTT                                     | GCC                          | TTT                   |
| ATC               | GCA             | GTG             | CGG<br>R        | GAG<br>E                                | 3CT                          | ၁၁၅                   |
| 783<br>GGG<br>G   | 837<br>ATT<br>I | 891<br>ATG      | 945<br>CAG<br>Q | 999<br>GAG<br>E                         | 1053<br>TCA TCT (<br>S S A   | 1107<br>TCC CCC TCA G |
| ATA<br>I          | TGG<br>W        | ATG<br>M        | CTC CTG<br>L L  | GCC CAG<br>A Q                          | TCA                          | CCC                   |
| CAA<br>Q          | GGT<br>G        | ATC<br>I        | CTC             | GCC                                     | 3CT                          | TCC                   |
| 774<br>TGT<br>C   | 828<br>AGC<br>S | 882<br>GTC<br>V | 936<br>TTC<br>F | 990<br>CAG<br>Q                         | 1044<br>GCT<br>A             | 1098<br>CTT CTC       |
| TTT<br>F          | GAC             | TCA             | GTC<br>V        | CAG<br>Q                                | 1044<br>AGA GCT (<br>R A A   |                       |
| FTT               | <br>            | ATA             | TCA             | TTC                                     | CAC<br>H                     | TCT                   |
| 765<br>GTA<br>V   | 819<br>CTG<br>L | 873<br>GCC<br>A | 927<br>CTC<br>L | 981<br>AGC<br>S                         | .035<br>TTC<br>F             | .089<br>TCC           |
| TTT<br>F          |                 | $	ext{CTG}$     | GTG<br>V        | GCC                                     | 1035<br>ACC TTC<br>T F       | TCC                   |
| TTC               | CCT             | TCC             | GCC             | 999                                     | AGA<br>R                     | 1089<br>TAG TCC TCC   |

#### FIGURE 2C

### 

| 1188<br>AGA CCT GGC       | 1242<br>CCC TGG AAC                              | 1269 1278 1287 1296<br>CCC CCT CTA TGT ACA AAA AAA AAC AAA GCT CTC | 1323 1350<br>TGG TAG GAT TCT TTT GTC TCT GGA AGC AGT GGG | 1404<br>T GGG ATC           | 1458<br>CCT GGG CCT   | 1503<br>CTT AGA CAC AGC CCA        | 1566<br>GGA CAG ATC                | 1620<br>G TTG CCT   |
|---------------------------|--|--|--|-----------------------------|-----------------------|------------------------------------|------------------------------------|---|
| A AC                      |  | Z AZ   | · AG   | T5 1                        |                       | 5                                  |                                    | TG  |
| 1179<br>GCC CAG CAC       | 1233<br>AGC TCT                                  | 1287<br>AAA AAC  | 1341<br>TCT GGA  | 1395<br>CAC ACA GTT         | 1449<br>CAG GGT       |                                    | 1557<br>TCT GGT                    | 1611<br>GAA GGC   |
|                           | ACC  | AAA  | GTC  | ညည                          | IGC                   | CTT                                | GGT                                | AGA   |
| 1170<br>GGT TGT           | 1215 1224 1233<br>CCT CCT CC TCA GCG ACC AGC TCT | 1278<br>TGT ACA  | 1332<br>TCT TTT  | 1377<br>TGC ACA CAC AGA CAC | 1440<br>GGA GCT TTC   | 1494<br>ATC TGG                    | 1548<br>CTC ACA                    | 1602<br>GCT TCC   |
| GGT                       | ၁၁၁  | CTA  | GAT  | CAC                         | GGA                   | TGA                                | CCT                                | CAG   |
| 1161<br>A TGT GGT GGT TGT |  |  | 1323<br>I TGG TAG  |                             | 1431<br>CCA GCT       | 1485 1494<br>C CTG GCC TGA ATC TGG | 1539 1548<br>3 AAT AAG CCT CTC ACA | 1584 1593 1602 1611 1620<br>CAC TCC AGT GGT CTC CAG GCT TCC AGA GAA GGC TGG TTG CCT |
| TTA                       | CTT  | TTT  | GT   | CT(                         | ATC                   | 999                                | 999                                | AGI   |
| 1152<br>Gre GGT GCC       | 1206<br>GCC GTG GCT                              | 1260<br>AGG GAA TTT  | 1314<br>CTG GTG ATG GTT                                  | 1368<br>CTC TTC GTC CTG     | 1422<br>CCT GGG CCC   | CAC CCT GCA GGC                    | 1530<br>GC TGG GCT GGG             | GGT CAC TCC   |
| 1143<br>GCA CTT TCC (     | 1197<br>AGG GTT CTT (                            | 1251<br>GGG AGG GAC A  | 1305<br>TTT CCT TCT (                                    | 1359<br>ACT GAA GTT (       | 1413<br>ACA GGC TGA ( | 1467<br>TGA CTC CCC C              | 1521<br>GTC CTT CCT 0              | 1575<br>TGT TCC CCA G   |

#### FIGURE 2D

## 

| 1674            | 1728            | 1782        | 1836        | 1890        | 1944        | 1998                    | 2052        | 2106            |
|-----------------|-----------------|-------------|-------------|-------------|-------------|-------------------------|-------------|-----------------|
| TAA GCT         | CCT GCA         | CTG AGC     | TGG GGA     | AGC GTC     | GTT TGC     | TCT GCC                 | TTT CAG     |                 |
| CCT             | 222             | TTG         | ATT         | TCC         | CCT         | GTC                     | GAC '       | ن<br>آن<br>آن   |
| 1665            | 1719            | 1773        | 1827        | 1881        | 1935        | 1989                    | 2043        | 2097            |
| TGG TTG         | CTT TAT         | CTC CCC     | GTT GGG     | CTA GCG     | TTT GGC     | GCC TTT                 | CAT CCA     | CAG CAG GGA CTG |
| 299             | ၁၁၅             | ၁၁၅         | TTG         | TGC         |             | GCT                     | CAG         | CAG             |
| 1656            | 1710            | 1764        | 1818        | 1872        | 1926        | 1971 1980               | 2034        | 2088            |
| TCC AGA GAA GGC | TTA ATA         | TCT GGA     | GTG CCG     | CTG TCC     | TGT GGT TGG | TCC CCG AAC CGA GGG ACG | CAT CAG     | ATC CCT         |
| TCC             | GGA             | 222         | ACA         | AAG         | TGG         | CGA                     | သသ          | ,<br>CGC        |
| 1647            | 1701            | 1755        | 1809        | 1863        | 1917        | 1971                    | 2025        | 2079            |
| ATA AAC GGA     | CTG AGA AAC GGA | TTT GAG     | GAA TGT     | GAC CCC AAG | CTG TCC TGG | CCG AAC                 | CAT GCT     | CAG AAC         |
|                 | CTG             | CAC         | TCT         | ACT         | TGC         | TCC                     |             | GTC             |
| 1638            | 1692            | 1746        | 1800        | 1854        | 1908        | 1962                    | 2016        | 2070            |
| TGC CTC         | GTG TTC         | GGA TGG     | AGA CTT     | AAG GAC     | GGG GTC TGC | CCC CCC                 | TGC CCC GCC | CAG CCA         |
| CTC             | <br>            | AGG         | TTC         | ACC         | GGT         |                         | ACC         | GAC             |
| 1629            | 1683            | 1737        | 1791        | 1845        | 1899        | 1953                    | 2007        | 2061            |
| CAA GCT CTT     | CCC TGC         | CCC TCC TGC | CTT ACT CTC | GAA GGG     | TAG GAG     | GAC TAC                 | TCA GAT GCC | GAA GGG CAG     |
| CAA             | CTT             | 200         | CTT         | CTG         | TTC         | TGT                     | TCA         | GAA             |

### FIGURE 2E

### Destron office

| . 2160           | 2214                    | 2268        | 2322        | 2376          | 2430                            |
|------------------|-------------------------|-------------|-------------|---------------|---------------------------------|
| CCC TGG GGG      | GCA CCC TGT             | CAA AAC TAG | TGA TAC TGG | CTA TGT ACA   | AAC ATT TTC                     |
| 2151             | 2205                    | 2259        | 2313        | 2367          | 2412 2421 2430                  |
| TGG TTC ACA      | TTA AAA CCA GCA         | GCC TTC CCA | GCC ACT GAA | TTT TCC CCT ( | TTA AGT AAA AAT AAA AAC ATT TTC |
| 2142             | 2196                    | 2250        | 2304        | 2358          |                                 |
| GGA GTC          | CCA CCC                 | TGG GGT     | GCC CCA     | GGT ATT       |                                 |
| 2133             | 2178 2187               | 2241        | 2295        | 2349          | 2403                            |
| CTA ATA CCC AGT  | GAT GGG ACA CGT AGG AGT | TGT GTG GAC | CAG CCG CAG | CTC CTT TCT   | TTT TTG TGC                     |
|                  | 8                       | .2          | 6           | 0             | 4                               |
|                  | IG ACA                  | T GGG       | G AGA       | T GAA         | T CAA                           |
| 2124             |                         | 2232        | 2286        | 2340          | 2394                            |
| ; GGC CCC        |                         | ; ccg Agt   | GGC CCG AGA | TTT TAT       | ACG TCT                         |
| GAG              | TGT                     | CTG         | CTG         | 999           | GTT                             |
| 2115 CAT CTC TCG | 2169                    | 2223        | 2277        | 2331          | 2385                            |
|                  | GTG TGT CAC             | CCC TCG AGG | CCT CCG GCT | CAG CGG CTG   | <b>AAT</b> GTA TAT              |

AGA C 3'

#### FIGURE 2F

GI 487057 GI 487057 GI 487057 GI 487057 GI 487057 980615 412453 980615 980615 980615 412453 412453 412453 TLDVGLAE S P T E P P S V E P P T E E H T Q A S A A A A T A E L L K K Q E E L N R K A E E L D R R E R E L Q A V V S A - A Q A G L L R Q Q E E L D R K A A E L E R K E R E L I T K E H A L A O A E L L K R O E E L E R K A A E L D R R E R E M MEIPOEF TEIPADY LAWFCVETNNGAGFG LAWFSGNSSKGVDFG LAWFCVDSSRAVDFG GLDE IPVEF G ص PEAPLEPPSAPSLQPSRKL-ATTVPVTQLPGSS-QPAVLQ -BGGVKMPNVP-NT-QPAIMK 1 SFCPVQPCFFQDISME SWCPVKPCFYQDFSTE SNFPVGPCFYQDFSVD Ø 0 Д FQDPAVIQHRPSR FQDPSVTQLTNAP EKDPSVTQVTRNV VTLFLNLLAC VTLFLNIFGC C ပ TLALLLLNFLA GNPFAEPSELDNP TNPFADP-VDVNP SNPFADP-DLNNP PLP LGGTATRONNWVANLHVRONNW--SQHGRKNNW Y L W M C S T Y L W M L H S LWMFHA Υ 1 EPPPA -TNA-RTPP-ON TMY Y Ж Ы S 4 0 ഗ ш E S S  $T \lor K$ ı S K OFF <u>م</u> م م O P A Y ORI H A D N Q O K T Z z O N Z 146 107 8227 33 45

#### **FIGURE 3A**

| 201 LSILWVLLFTPCSFVCWYRPMYKAFRSDSSFNFFVFFFIF  | 980615                            |
|---|-----------------------------------|
| 186 LSILWFLIFTPCAFLCWYRPIYKAFRSDNSFSFVFFFVF   | 412453                            |
| 186 LSILWFLLFTPCSFVCWYRPLYGAFRSDSSERFFVFFVY   | GI 487057                         |
| 241 FVQ D V L FV1 Q A I G I P G W G F S G W I S A L V - V P K G N T A V S V L M 226 E C Q I G I Y I I Q L V G I P G L G D S G W I A A L S T L D N H S L A I S V I M 226 I C Q F A V H V L Q A A G F H N W G N C G W I S S L T G L N K N - I P V G I M M | 980615<br>  412453<br>  GI 487057 |
| 280 LLVALLETGIAVLGIVMLKRIHSLYRRTGASFOKAQQEFA  | 980615                            |
| 266 MVVAGEFTLCAVLSVFLLQRVHSLYRRTGASFOQAQEEFS  | 412453                            |
| 265 IIIAALETASAVISLVMFKKVHGLYRTTGASFEKAQOEFA  | GI 487057                         |
| 320 AGVFSNPAWRTAAANAAA GAAENAFRAP   | 980615                            |
| 306 OGIFSSRTEHRAAS SAAQGAFQGN   | 412453                            |
| 305 TGVMSNKTVQTAAANAASTAATSAAONAEKGNQM  | GI 487057                         |

#### FIGURE 3B